

CLAIMS

1. A dispensing closure comprising:

a closure body adapted to be assembled to the opening of a container, said closure body defining a dispensing passage for communication between the container interior and exterior through the container opening; and

an automatic sealing valve disposed in said closure body across said dispensing passage, said valve opening in response to increased container pressure and automatically closing in response to released container pressure, and comprising;

(a) said closure body having a cylindrical body for attachment to said container, a horizontal covering part extending inwardly from the top of said cylindrical body, a vertical covering part extending upwardly from the inner end of said horizontal covering part, and a top covering part extending inwardly from the upper end of said vertical covering part and protruding downwardly at its lower surface, which forms a generally tubular spout; and

(b) said automatic sealing valve having a static member for engagement in the inside space made by said horizontal covering part, vertical covering part and top covering part of said closure body, and a dynamic member for being movable by pressure within said container between an open position and a closed position;

wherein said static member comprises a horizontal part corresponding to said horizontal covering part and a vertical part corresponding to said vertical covering part, and said dynamic member comprises a flexible lateral part extending inwardly from the top of said vertical part and then bending downwardly, and an automatic sealing part extending inwardly from said flexible lateral part and

having a central opening-closing slit; and

wherein the top surface of a connect portion between said vertical part and said flexible lateral part have a generally V-shaped groove, and the thickness of said flexible lateral part is less than $\frac{1}{3}$ of the thickness of said vertical part and simultaneously less than $\frac{1}{3}$ of the thickness of the peripheral portion of said automatic sealing part, and the top surface of said automatic sealing part forms the shape of a reverse dome, and the outer, peripheral surface of said automatic sealing part slopes outwardly, downwardly at least 5° from its vertical axis.

2. The dispensing closure according to claim 1, wherein the thickness of said flexible lateral part is less than $\frac{1}{4}$ of the thickness of said vertical part and simultaneously less than $\frac{1}{4}$ of the thickness of the peripheral portion of said automatic sealing part,

3. The dispensing closure according to claim 1, wherein the outer, peripheral surface of said automatic sealing part slopes outwardly, downwardly in a range of from 5° to 15° from its vertical axis.

4. The dispensing closure according to claim 1, wherein said cylindrical body of the closure body further includes an annular, small ring which protrudes inwardly from the inner surface of the cylindrical body with which said horizontal part of the automatic sealing valve comes into contact.

5. The dispensing closure according to claim 1, wherein said dispensing closure further includes a cap for protection of said automatic sealing valve and being connected to said cylindrical body of the closure body through a snap hinge, said cap having a central post which is disposed within the reverse dome-typed cavity of said automatic sealing valve when the cap is closed thereover.